CLRIMS

1. A solid electrolytic capacitor comprising:

a capacitor element having an anode and a cathode;

a base sheet member having an obverse surface for mounting the capacitor element and a reverse surface opposite to the obverse surface;

a protection package formed on the obverse surface of the sheet member to enclose the capacitor element, the package having a first side surface adjacent to the anode of the capacitor element and a second side surface opposite to the first side surface;

a conductive outer anode layer electrically connected to the anode of the capacitor element; and

a conductive outer cathode layer electrically connected to the cathode of the capacitor element;

wherein the outer anode layer is formed on at least either one of the package and the sheet member, the outer cathode layer being formed on at least either one of the package and the sheet member.

2. The solid electrolytic capacitor according to claim 1, further comprising an upper sheet member for shielding the capacitor element, the capacitor element being arranged between the base sheet member and the upper sheet member.

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3. The solid electrolytic capacitor according to claim 1, wherein the package is formed with an at least partially slanted portion.

4. The solid electrolytic capacitor according to claim 1, wherein the outer anode layer is formed on at least either one of the first side surface of the package and the reverse surface of the base sheet member, the outer cathode layer being formed on at least either one of the second side surface of the package and the reverse surface of the base sheet member.

5. The solid electrolytic capacitor according to claim 4, wherein the anode is exposed at the first side surface of the package to come into contact with the outer anode layer.

6. The solid electrolytic capacitor according to claim 4, further comprising a metal piece attached to the anode of the capacitor element, the metal piece being exposed at the first side surface of the package to come into contact with the outer anode layer.

7. The solid electrolytic capacitor according to claim 4, further comprising a metal piece attached to the anode of the capacitor element and an anode connection layer formed on the obverse surface of the base sheet member, the anode connection layer being connected to the metal piece and exposed at the

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first side surface of the package to come into contact with the outer anode layer.

8. The solid electrolytic capacitor according to claim 4, further comprising a metal piece attached to the anode of the capacitor element and an anode connection layer formed on the obverse surface of the base sheet member, the metal piece being connected to the anode connection layer, the base sheet member being formed with a through-hole for connecting the anode connection layer to the outer anode layer.

9. The solid electrolytic capacitor according to claim 5, further comprising a cathode connection layer formed on the obverse surface of the base sheet member and connected to the cathode of the capacitor element, the cathode connection layer being exposed at the second side surface of the package to come into contact with the outer cathode layer.

10. The solid electrolytic capacitor according to claim 5, further comprising a cathode bump arranged on the cathode of the capacitor element, the cathode bump being exposed at the second side surface of the package to come into contact with the outer cathode layer.

11. The solid electrolytic capacitor according to claim 5, further comprising a cathode connection layer formed on the obverse surface of the base sheet member and connected to the

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cathode of the capacitor element, the base sheet member being formed with a through-hole for connecting the cathode connection layer to the outer cathode layer.

12. A method of making a solid electrolytic capacitor comprising the steps of:

preparing a sheet member having an obverse surface and a reverse surface, the obverse surface being provided with at least one cathode connection layer;

placing a capacitor element having an anode and a cathode onto the obverse surface of the sheet member so that the cathode of the capacitor element comes into contact with the cathode connection layer;

forming a resin plate on the obverse surface of the sheet member to enclose the capacitor element;

cutting the resin plate to generate a first cut surface and a second cut surface, the anode of the capacitor element being exposed at the first cut surface, the cathode connection layer being exposed at the second cut surface;

forming an anode terminal layer on the first cut surface; forming a cathode terminal layer on the second cut surface; and

cytting the resin plate to provide a product capacitor.

13. The method according to claim 12, wherein at least either one of the first and the second cut surfaces includes an at least partially slanted portion.

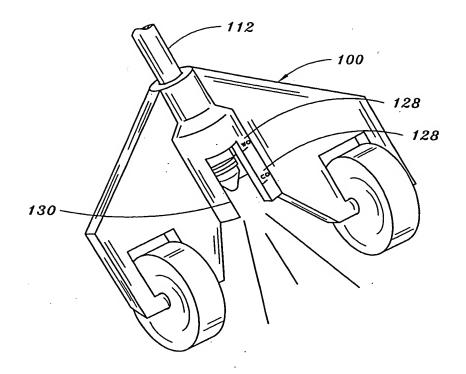


FIG. 5

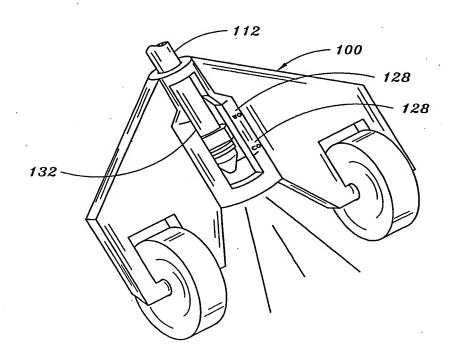


FIG. 6